

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A cam assisted wheel brake suitable for use with a bicycle, comprising:
 - a) a first arm;
 - b) a second arm;
 - c) a screw for providing a pivot point for said first and second arms and also for providing an attachment mechanism for attachment to a fork of said bicycle;
 - d) a cam lever having a lobe attached to said first arm by a brake cable; and,
 - e) a spring for providing an opposing force to said cable and which can open said brake.
2. (original) The cam-assisted wheel brake of claim 1, further comprising at least one brake pad associated with said first arm.
3. (original) The cam-assisted wheel brake of claim 1, further comprising a brake pad associated with said first arm and a brake pad associated with said second arm.
4. (currently amended) The cam-assisted wheel brake of claim 1, wherein said first arm and said second arm are pivotably movable from an open position to a closed position so as to engage said a wheel when said lever is actuated.

5. (currently amended) A brake apparatus for a wheeled vehicle, said wheeled vehicle having at least one wheel including a rim, said brake apparatus comprising:
 - a) a first arm having
 - i) a first portion for attaching a brake pad thereto,
 - ii) a middle portion having a bore extending through a portion thereof,
 - iii) a second portion having a bore extending therethrough, and
 - iv) an extension for accepting a brake cable adjuster;
 - b) a second arm having
 - i) a first portion for attaching a brake pad thereto,
 - ii) a middle portion having a bore extending through a portion thereof,
 - iii) a finger portion extending toward said first arm;
 - c) a bolt extending through said first arm second portion bore and through said second arm middle portion bore for providing a pivot point for said first and second arms and also for providing an attachment mechanism for attachment to said wheeled vehicle;

- d) a cam lever having a top edge and a bottom edge and having
 - i) a first portion having a bore extending through a portion thereof,
 - ii) a middle portion,
 - iii) a curved edge portion extending from said top edge, said curved edge portion being capable of contacting said second arm finger portion;
 - iv) a second portion having a bore extending through a portion thereof,
 - v) a pin extending through said cam lever second portion bore, said pin permitting said cam lever to pivot about said pin, said pin being associated with said first arm; and,
 - e) a spring associated with said first arm and said second arm.
6. (currently amended) The brake apparatus of Claim 5, further comprising a quick release mechanism comprising:
- a) a lever,
 - b) a first pin extending from said lever and extending through said first arm second portion bore,
 - c) a second pin extending from said first pin, said second pin having an axis being offset from the axis of said first pin, said second pin pivotably passing through said cam lever second portion bore.

7. (original) The brake apparatus of Claim 6, further comprising a fastener for maintaining said cam lever on said lever second pin.
8. (original) The brake apparatus of Claim 5, further comprising a screw extending substantially through said cam lever first portion bore.
9. (original) The brake apparatus of Claim 5, further comprising a hollow screw passing through a bore defined in said first arm first extension, said hollow screw being sized to receive a portion of said brake cable.
10. (original) The brake apparatus of Claim 5, further comprising a nut sized to fit over said bolt.

11. (currently amended) A brake apparatus for a wheeled vehicle, said wheeled vehicle having at least one wheel including a rim, said brake apparatus comprising:

- a) a first arm having
 - i) a first portion for attaching a brake pad thereto,
 - ii) a middle portion having a bore extending through a portion thereof,
 - iii) a second portion having a bore extending therethrough, and
 - iv) an extension for accepting a brake cable adjuster;
- b) a second arm having
 - i) a first portion for attaching a brake pad thereto,
 - ii) a middle portion having a bore extending through a portion thereof,
 - iii) a finger portion extending toward said first arm;
- c) a bolt extending through said first arm second portion bore and through said second arm middle portion bore for providing a pivot point for said first and second arms and also for providing an attachment mechanism for attachment to said wheeled vehicle;
- d) a cam lever having a top edge and a bottom edge and having
 - i) a first portion having a bore extending through a portion thereof,

- ii) a middle portion a curved edge portion extending from said top edge, said curved edge portion being capable of contacting said second arm finger portion;
 - iii) a second portion having a bore extending through a portion thereof,
 - iv) a pin extending through said cam lever second portion bore, said pin permitting said cam lever to pivot about said pin, said pin being associated with said first arm;
 - e) a spring associated with said first arm and said second arm; and;
 - f) a quick release mechanism comprising:
 - i) a lever,
 - ii) a first pin extending from said lever and extending through said first arm second portion bore,
 - iii) a second pin extending from said first pin, said second pin having an axis being offset from the axis of said first pin, said second pin pivotably passing through said cam lever second portion bore,
- said quick release mechanism when operated causes said cam lever to shift from a first engaged orientation to a second release orientation whereby when shifted into said second release orientation causes said first arm first portion and said second arm first portion to move outward and away with respect to each other so that a wheel rim disposed therebetween can be removed.

12. (currently amended) A wheeled vehicle having a brake system, comprising:

- a) a frame;
- b) at least one fork extending from said frame;
- c) at least one wheel, each said wheel comprising a rim and an axle, ~~at least~~ said axle being associated with each fork;
- d) a brake mechanism associated with said rim and said frame, comprising:
 - i) a first arm having
 - (1) a first portion for attaching a brake pad thereto,
 - (2) a middle portion having a bore extending through a portion thereof,
 - (3) a second portion having a bore extending therethrough, and
 - (4) an extension for accepting a brake cable adjuster;
 - ii) a second arm having
 - (1) a first portion for attaching a brake pad thereto,
 - (2) a middle portion having a bore extending through a portion thereof,
 - (3) a finger portion extending toward said first arm;

- iii) a bolt extending through said first arm second portion bore and through said second arm middle portion bore for providing a pivot point for said first and second arms and also for providing an attachment mechanism for attachment to said wheeled vehicle;
 - iv) a brake cable having a first end and a second end;
 - v) a cam lever having a top edge and a bottom edge and having
 - (1) a first portion having a bore extending through a portion thereof,
 - (2) a middle portion a curved edge portion extending from said top edge, said curved edge portion being capable of contacting said second arm finger portion;
 - (3) a second portion having a bore extending through a portion thereof,
 - (4) a pin extending through said cam lever second portion bore, said pin permitting said cam lever to pivot about said pin, said pin being associated with said first arm;
 - vi) a spring associated with said first arm and said second arm; and;
- e) a lever for actuating said brake system, said lever being operatively connected to said second end of said brake cable and to said frame.

13. (currently amended) The wheeled vehicle of Claim 12, further comprising a quick release mechanism comprising:

- a) a lever,
- b) a first pin extending from said lever and extending through said first arm second portion bore,
- c) a second pin extending from said first pin, said second pin having an axis being offset from the axis of said first pin, said second pin pivotably passing through said cam lever second portion bore.

14. (original) The wheeled vehicle of Claim 13, further comprising a fastener for maintaining said cam lever on said lever second pin.

15. (original) The wheeled vehicle of Claim 12, further comprising a screw extending substantially through said cam lever first portion bore.

16. (original) The wheeled vehicle of Claim 12, further comprising a hollow screw passing through a bore defined in said first arm first extension, said hollow screw being sized to receive a portion of said brake cable.

17. (original) The wheeled vehicle of Claim 12, further comprising a nut sized to fit over said bolt.

18. (New) The brake apparatus of Claim 1, further comprising a quick release mechanism pivotably connected to said cam lever, said quick release mechanism comprising:

- a) a lever;
- b) a first pin portion having an axis of rotation, a first end associated with said lever and a second end; and
- c) a second pin portion associated with said first pin portion second end and axially offset from said first pin portion.

19. (New) A cam assisted wheel brake suitable for use with a bicycle or other apparatus having a wheel, comprising:

- a) a first arm;
- b) a second arm having a finger portion;
- c) a pivot member for providing a pivot point for said first and second arms and also for providing an attachment mechanism for attachment to a fork of said bicycle;
- d) a cam lever having
 - i) a first end portion pivotably associated with said first arm,
 - ii) a middle portion including a cam surface operatively engageable with said second arm, and
 - iii) a second end portion; and
- e) a spring associated with said first and second arms for biasing said first and second arms in an open position.

20. (New) The brake of Claim 19, wherein said second end portion is operatively connected to a brake cable.

21. (New) The brake of Claim 20, wherein said brake cable is slidingly associated with a cable adjuster associated with said first arm such that pulling said cable causes said cam lever to pivot and said cam surface to engage said finger portion of said second arm.

22. (New) The brake of Claim 19, wherein said cam surface is disposed between said first and second portions of said cam lever.

23. (New) A cam assisted wheel brake suitable for use with a bicycle or other apparatus having a wheel, comprising:

- a) a first arm having a first portion containing a first aperture and a second portion containing a second aperture for connecting to a brake pad;
- b) a second arm having
 - i) a first portion containing a first aperture,
 - ii) a second portion containing a second aperture for connecting to a brake pad and
 - iii) a finger portion extending toward and overlapping a portion of said first arm, said finger portion having a outside surface and a inside surface;
- c) a screw for providing a pivot point for said first and second arms and also for providing an attachment mechanism for attachment to a fork of said bicycle;
- d) a cam lever having
 - i) a first end portion pivotably associated with said first arm,

- ii) a middle portion including a cam surface operatively engageable with said inside surface of said finger portion, said cam surface being disposed between said first arm second portion and said second arm second portion, and
 - iii) a second end portion; and
- e) a spring biasing said first and second arms in an open position.

Amendments to the Abstract:

Please replace the Abstract beginning at line 1 page 7 with the following rewritten paragraph:

ABSTRACT

--A cam assisted wheel brake for a bicycle comprising two arms mounted on a bolt, which provides a pivot point for the arms and a means for attachment of the brake to the fork of the bicycle. The brake incorporates a cam lever pivotably associated with the first arm and which engages a finger portion of the second arm and which comprising a first portion having a screw passing through a bore, a middle portion having a top edge having a curved edge portion, and a second portion pivotably connected to the first arm by a pin extending therethrough. The invention preferably has a quick release mechanism comprising a lever having a first pin extending therefrom, the pin pivotably engaging a bore in the first arm, and a second pin extending off axis from the first pin and pivotably engaging the second portion of the cam lever.--